



# Seasons' Greetings from Norway!

*On behalf of everyone at Dr. techn. Olav Olsen AS, I would like to thank you for the excellent collaboration this past year. I am very proud of my skilled and dedicated employees who have once again contributed to exciting projects and results in 2024. Through this work, we create great value for our customers – and development for society!*

*During the year, we have continued to develop new areas of expertise without compromising on the demands we place on ourselves in terms of competence and quality, and we now have approximately 160 employees. The picture above shows the whole team on a well-deserved trip to Paris earlier this fall.*

*As part of the Artelia Group with 10,000 employees, we have access to further specialized expertise. We have an increasing number of assignments where we draw on international resources for the benefit of our customers.*

*This fall, we established an office in Bergen to strengthen the follow-up of our activities in the region and to position ourselves for new opportunities. We hope and believe that the market will view us positively as a new attractive employer and provider of engineering services!*

*Here you will find a brief status and a small selection of some of the projects we have worked on during the past year. More information can be found on our website and by following us on Facebook and LinkedIn.*

*I wish you a happy holidays and a prosperous 2025!*

Olav Weider  
CEO



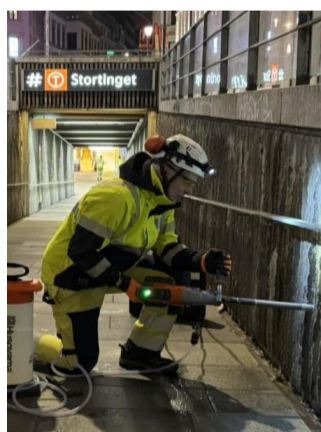
## BUILDINGS

2024 has been an exciting year for the building department, with several important projects that combine technical innovation and sustainable solutions. Among the highlights is our work on the rehabilitation of **Den Nationale Scene in Bergen**. The project aims to make the theater universally accessible and more functional for both employees and the public, while preserving the historical value of the building. We are providing advice on structural design, geotechnics, ventilation, building physics, and energy. Additionally, we are conducting analyses of mortar, plaster, and paint, offering recommendations for product selection to ensure gentle and precise rehabilitation of the interior surfaces. The new Nadderud Stadium in Bærum sets a new standard for sustainable sports facilities. As the first top football stadium in Norway with laminated timber stands, the project focuses on a fossil-free construction site, energy efficiency, and innovative solutions such as CO2 heat pumps and solar panels. We have also contributed to cost-effective construction solutions and designed a new flood channel through the area. The stadium is an important step towards environmentally friendly sports building and community engagement. We are also proud that Stortorget 7 was awarded "Building of the Year 2023" and the City Award 2024 for outstanding transformation and sustainability in central Oslo. Oslo sentrum.



## CIVIL WORKS

We commenced our third framework agreement on consultancy services for the Norwegian Coastal Administration, leveraging our maritime structure and analyses expertise to safeguard Norway's waterways. We have delivered diverse harbour and quay projects, from underwater photogrammetry inspections to detailed designs and offshore wind turbine assembly studies. We joined PIANC and hold a seat in Tekna's Harbor Engineering Group board. We enhanced our CFD expertise with assignments on wind comfort, sonar systems, and closed spillways. We remain a preferred partner for quantitatively probability analysis of the control systems of hydropower plants and dams, using fault tree analysis, continuing activities in flood calculations, reassessments of dams and hydropower plants. The number of NVE-approved specialist have increased in multiple disciplines this year. At year's end, we unwrapped a new multi-discipline framework agreement with Statkraft, setting the stage for upcoming projects. In the power grid sector, we handle assignments under Statnett's framework agreement and design projects for substations in larger turnkey contracts. Aquaculture is regaining momentum, and we are engaged in floating, closed, and submerged systems as well as feed barges. We are also designing a billion-NOK wastewater treatment plant featuring worldclass Norwegian technology for phosphorus recovery and nitrogen removal, offering substantial environmental benefits..



## INFRASTRUCTURE

2024 has been a year of high activity and exciting projects for the Transportation Division. We have enjoyed a successful collaboration with Veidekke and NPRA on Ring 1, where work is now at full steam. We have carried out several interesting assignments for Bane NOR, strengthening our expertise and experience in railway infrastructure. At the same time, our railway projects in Moss and Stange are nearing completion. We have also conducted inspections of several bridges, along with multiple bridge rehabilitation assignments. Another highlight is our contribution to the Bjørnafjorden project, bringing the world's longest floating bridge closer to realization. We have been fortunate to participate in local projects as well, including the rehabilitation of metro stations in downtown Oslo, an architectural competition for the bridges in Lilleakerbyen, and work on the Forneubanen metro line. A significant portion of this year's projects have been vital in modernizing public transportation in the capital, and we are proud to contribute our expertise to such socially important endeavors. As we close the year, we look forward to 2025, where we are involved in several major tender projects. We hope these will lead to exciting new opportunities that drive further growth and development within the division.



## OFFSHORE ENERGY

The optimism in the floating offshore wind market has been somewhat reduced this year. This is mainly due to rising costs and postponements of key projects in a number of countries. For our part, 2024 has nevertheless produced a record revenue in marine renewable energy, and we believe that the future prospects in this market are good. The main part of the revenue comes from floating offshore wind, but we have also seen an increased interest in our GBS and jacket solutions. In addition, we have entered land-based wind power, where we contribute with our unique combination of concrete expertise and understanding of wind turbine dynamics. Next year promises to be even better, and we are especially looking forward to Utsira Nord getting started. Within oil and gas, the year ends with a major upswing in the form of the start of the establishment of **SRS models for Statfjord B and C**, a project for Equinor that consolidates our position as a leader in offshore concrete structures. Furthermore, the year has been filled with exciting tasks within the design of LNG terminals, analyzes of HVDC platforms, method work for Aker Solutions at Verdalen and we have continued our support to Esso Australia in their project related to the removal of concrete platforms in Australia.



## GEOTECHNICAL ENGINEERING

We leave 2024 grateful that we have managed to maintain a high level of activity throughout what has been a demanding year in the building and construction industry. As geotechnical engineers, we are so privileged that many of the assignments also take us out of the office and onto facilities and construction sites. Throughout the year, we have inspected sheet pile walls that we have designed on Ring 1, routes for mast foundations at transportation stations, installation of erosion protection in quick clay, and carrying out soil investigations for bridge projects, from Flekkefjord to Alta, just to name a few. We have worked on large and small assignments in framework agreements for important, public partners for us, such as the Norwegian Coastal Administration, Statkraft, Statnett and municipalities in the regions around us. In addition, we have designed safety measures against quick clay landslides for school grounds, designed and followed up the construction of student housing and large sports facilities such as Nadderud and contributed to new activity and continued life in protected wharves in Trondheim. Through consulting for Den Nasjonale Scene, we have contributed to cultural life in Bergen at the same time as we have helped develop commercial plots in central Norway. For the new year, we look forward to new meetings, inspections and solutions together with our clients and partners.



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